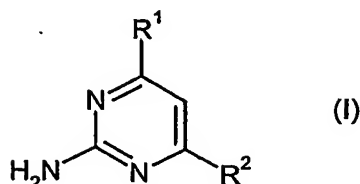
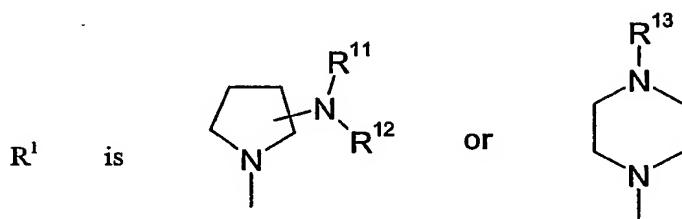


CLAIMS

1. A 2-aminopyrimidine derivative of the formula (I), its tautomeric or stereoisomeric form, or a salt thereof:



5 wherein



wherein

10 R¹¹ and R¹² independently represent hydrogen or C₁₋₆alkyl optionally substituted by halogen, cyano, hydroxy, carboxy, amino, C₁₋₆alkylamino, N,N-di(C₁₋₆alkyl)amino, C₁₋₆alkylthio, C₁₋₆alkoxy, or C₃₋₈cycloalkyl;

R¹³ is C₁₋₆alkyl optionally substituted by halogen, cyano, hydroxy, carboxy, amino, C₁₋₆alkylamino, N,N-di(C₁₋₆alkyl)amino, C₁₋₆alkylthio, C₁₋₆alkoxy, or C₃₋₈cycloalkyl; and

R² is phenyl or naphthyl,

15 wherein

20 said phenyl and naphthyl are optionally having one or more substituents selected from the group consisting of halogen, amino, carboxy, cyano, hydroxy, nitro, phenyl, C₁₋₆alkanoyl, N-(C₁₋₆alkyl)sulfonylamino, N-phenylsulfonylamino, C₁₋₆alkylamino, N,N-di(C₁₋₆alkyl)amino, N-(C₁₋₆alkanoyl)amino, C₁₋₆alkoxycarbonyl, C₁₋₆alkylthio, N-(C₁₋₆alkoxycarbonyl)amino, N-arylamino, N-(aryl C₁₋₆alkyl)amino, aminocarbonyl, N-(C₁₋₆alkyl)aminocarbonyl, N,N-di(C₁₋₆alkyl)aminocarbonyl, C₃₋₈cycloalkyl, C₁₋₆alkylsulfonyl, sulfamoyl, aryl C₁₋₆alkoxycarbonyl, C₁₋₆alkyl, C₁₋₆alkyl substituted by cyano,

hydroxy, carboxy, amino, C₁₋₆alkylamino, N,N-di(C₁₋₆alkyl)amino, C₁₋₆alkylthio, C₁₋₆alkoxy, or mono-, di-, or tri- halogen, C₁₋₆alkoxy, C₁₋₆alkoxy substituted by mono-, di-, or tri- halogen, -N(R²¹)C(O)N(R²²)(R²³), and -N(R²¹)C(O) R²⁴,

wherein

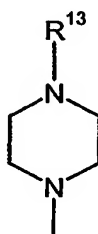
5 R²¹ is hydrogen or C₁₋₆alkyl;

10 R²² is C₁₋₆alkyl, or phenyl optionally having one or more substituents selected from the group consisting of halogen, amino, carbamoyl, cyano, hydroxy, nitro, phenyl, C₁₋₆alkanoyl, C₁₋₆alkyl optionally substituted by hydroxy or mono-, di-, or tri- halogen, and C₁₋₆alkoxy optionally substituted by mono-, di-, or tri- halogen;

R²³ is hydrogen or C₁₋₆alkyl;

15 R²⁴ is phenyl optionally having one or more substituents selected from the group consisting of halogen, amino, carboxy, carbamoyl, cyano, hydroxy, nitro, phenyl, C₁₋₆alkanoyl, C₁₋₆alkyl optionally substituted by hydroxy or mono-, di-, or tri- halogen, and C₁₋₆alkoxy optionally substituted by mono-, di-, or tri- halogen.

with the proviso that when R¹ is



20 R² is optionally substituted phenyl, said phenyl is substituted by at least one substituent selected from the group consisting of carboxy, cyano, hydroxy, phenyl, C₁₋₆alkanoyl, N-phenylsulfonylamino, C₁₋₆alkylamino, N,N-di(C₁₋₆alkyl)amino, N-(C₁₋₆alkanoyl)amino, C₁₋₆alkoxycarbonyl, C₁₋₆alkylthio, N-(C₁₋₆alkoxycarbonyl)amino, N-arylamino, N-(aryl C₁₋₆alkyl)amino, aminocarbonyl, N-(C₁₋₆alkyl)aminocarbonyl, N,N-di(C₁₋₆alkyl)aminocarbonyl, C₃₋₈cycloalkyl, C₁₋₆alkylsulfonyl, aryl C₁₋₆alkoxycarbonyl, C₁₋₆alkyl substituted by cyano, hydroxy, carboxy, amino, C₁₋₆alkylamino, N,N-di(C₁₋₆alkyl)amino, C₁₋₆alkylthio,

25

C₁₋₆alkoxy, or mono-, di-, or tri- halogen, C₁₋₆alkoxy substituted by mono-, di-, or tri- halogen, -N(R²¹)C(O)N(R²²)(R²³), and -N(R²¹)C(O)R²⁴,

wherein

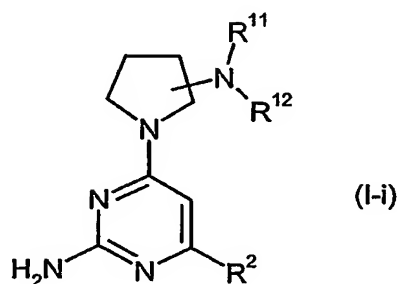
5 R²¹ is hydrogen or C₁₋₆alkyl;

R²² is C₁₋₆alkyl, or phenyl optionally having one or more substituents selected from the group consisting of halogen, amino, carbamoyl, cyano, hydroxy, nitro, phenyl, C₁₋₆alkanoyl, C₁₋₆alkyl optionally substituted by hydroxy or mono-, di-, or tri-halogen, and C₁₋₆alkoxy optionally substituted by mono-, di-, or tri-halogen;

R²³ is hydrogen or C₁₋₆alkyl;

15 R²⁴ is phenyl optionally having one or more substituents selected from the group consisting of halogen, amino, carboxy, carbamoyl, cyano, hydroxy, nitro, phenyl, C₁₋₆alkanoyl, C₁₋₆alkyl optionally substituted by hydroxy or mono-, di-, or tri-halogen, and C₁₋₆alkoxy optionally substituted by mono-, di-, or tri-halogen.

2. A 2-aminopyrimidine derivative of the formula (I-i), its tautomeric or stereoisomeric form, or
20 a salt,



wherein

R¹¹ and R¹² independently represent hydrogen or C₁₋₆alkyl optionally substituted by halogen, cyano, hydroxy, carboxy, amino, C₁₋₆alkylamino, N,N-di(C₁₋₆alkyl)amino, C₁₋₆alkylthio, C₁₋₆alkoxy, or C₃₋₈cycloalkyl; and

R² is phenyl or naphthyl,

wherein

5 said phenyl and naphthyl are optionally having one or more substituents selected from the group consisting of halogen, amino, carboxy, cyano, hydroxy, nitro, phenyl, C₁₋₆-alkanoyl, N-(C₁₋₆alkyl)sulfonylamino, N-phenylsulfonylamino, C₁₋₆alkylamino, N,N-di(C₁₋₆alkyl)amino, N-(C₁₋₆alkanoyl)amino, C₁₋₆alkoxycarbonyl, C₁₋₆alkylthio, N-(C₁₋₆alkoxycabonyl)amino, N-arylamino, N-(arylC₁₋₆alkyl)amino, aminocarbonyl, N-(C₁₋₆alkyl)aminocarbonyl, N,N-di(C₁₋₆alkyl)aminocarbonyl, C₃₋₈cycloalkyl, C₁₋₆alkylsulfonyl, sulfamoyl, aryl C₁₋₆alkoxycarbonyl, C₁₋₆alkyl substituted by cyano, hydroxy, carboxy, amino, C₁₋₆alkylamino, N,N-di(C₁₋₆alkyl)amino, C₁₋₆alkylthio, C₁₋₆alkoxy, or
10 mono-, di-, or tri- halogen, C₁₋₆alkoxy optionally substituted by mono-, di-, or tri-halogen, N(R²¹)C(O)N(R²²)(R²³), and N(R²¹)C(O) R²⁴,

wherein

R²¹ is hydrogen or C₁₋₆alkyl;

15 R²² is C₁₋₆alkyl, or phenyl optionally having one or more substituents selected from the group consisting of halogen, amino, carbamoyl, cyano, hydroxy, nitro, phenyl, C₁₋₆alkanoyl, C₁₋₆alkyl optionally substituted by hydroxy or mono-, di-, or tri- halogen, and C₁₋₆alkoxy optionally substituted by mono- di-, or tri- halogen;

20 R²³ is hydrogen or C₁₋₆alkyl; and

R²⁴ is phenyl optionally having one or more substituents selected from the group consisting of halogen, amino, carboxy, carbamoyl, cyano, hydroxy, nitro, phenyl, C₁₋₆alkanoyl, C₁₋₆alkyl optionally substituted by hydroxy or mono-, di-, or tri- halogen, and C₁₋₆alkoxy optionally substituted by mono-, di-, or tri- halogen.
25

3. The 2-aminopyrimidine derivative of the formula (I-i), its tautomeric or stereoisomeric form, or a salt thereof as claimed in claim 2,

wherein

R² is phenyl or naphthyl,

wherein

5 said phenyl and naphthyl are optionally having one or more substituents selected from the group consisting of halogen, amino, cyano, hydroxy, nitro, phenyl, C₁₋₆alkanoyl, C₁₋₆alkylamino, N,N-di(C₁₋₆alkyl)amino, N-(C₁₋₆alkanoyl)amino, C₁₋₆alkoxycarbonyl, C₁₋₆alkylthio, C₁₋₆alkylsulfonyl, C₁₋₆alkyl, trifluoromethyl, C₁₋₆alkyl substituted by cyano, hydroxy, amino, C₁₋₆alkylamino, N,N-di(C₁₋₆alkyl)amino, or C₁₋₆alkoxy, C₁₋₆alkoxy, N(R²¹)C(O)N(R²²)(R²³), and N(R²¹)C(O)R²⁴,

wherein

- 10 R²¹ is hydrogen or C₁₋₆alkyl;
- R²² is C₁₋₆alkyl, or phenyl optionally having one or more substituents selected from the group consisting of halogen, amino, carbamoyl, cyano, hydroxy, nitro, phenyl, C₁₋₆alkanoyl, C₁₋₆alkyl optionally substituted by hydroxy or mono-, di-, or tri- halogen, and C₁₋₆alkoxy optionally substituted by mono- di-, or tri- halogen;
- 15 R²³ is hydrogen or C₁₋₆alkyl; and
- R²⁴ is phenyl optionally having one or more substituents selected from the group consisting of halogen, amino, carboxy, carbamoyl, cyano, hydroxy, nitro, phenyl, C₁₋₆alkanoyl, C₁₋₆alkyl optionally substituted by hydroxy or mono-, di-, or tri- halogen, and C₁₋₆alkoxy optionally substituted by mono-, di-, or tri- halogen.
- 20

4. The 2-aminopyrimidine derivative of the formula (I-i), its tautomeric or stereoisomeric form, or a salt thereof as claimed in claim 2,

wherein

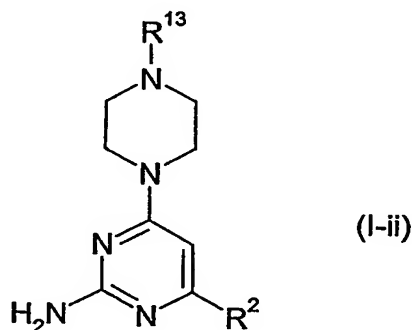
R¹¹ and R¹² independently represent hydrogen or methyl.

- 25 5. The 2-aminopyrimidine derivative of the formula (I-i), its tautomeric or stereoisomeric form, or a salt thereof as claimed in claim 2, wherein said derivative is selected from the group consisting of the following compounds:

4-(3-aminopyrrolidin-1-yl)-6-phenylpyrimidin-2-amine trihydrochloride;

4-[3-(dimethylamino)pyrrolidin-1-yl]-6-phenylpyrimidin-2-amine trihydrochloride;

- 4-[3-(methylamino)pyrrolidin-1-yl]-6-phenylpyrimidin-2-amine trihydrochloride;
- 4-[3-(methylamino)pyrrolidin-1-yl]-6-(3-nitrophenyl)pyrimidin-2-amine trihydrochloride;
- 4-[(3R)-3-(methylamino)pyrrolidin-1-yl]-6-(3-nitrophenyl)pyrimidin-2-amine trihydrochloride;
- 5 4-[(3S)-3-(methylamino)pyrrolidin-1-yl]-6-(3-nitrophenyl)pyrimidin-2-amine trihydrochloride;
- 4-[(3S)-3-(methylamino)pyrrolidin-1-yl]-6-phenylpyrimidin-2-amine trihydrochloride;
- 4-[(3R)-3-(methylamino)pyrrolidin-1-yl]-6-phenylpyrimidin-2-amine trihydrochloride;
- 4-[3-(methylamino)pyrrolidin-1-yl]-6-(3-methylphenyl)pyrimidin-2-amine trihydrochloride;
- 10 1-(3-{2-amino-6-[3-(methylamino)pyrrolidin-1-yl]pyrimidin-4-yl}phenyl)ethanone trihydrochloride;
- 3-{2-amino-6-[3-(methylamino)pyrrolidin-1-yl]pyrimidin-4-yl}phenol trihydrochloride;
- (3-{2-amino-6-[3-(methylamino)pyrrolidin-1-yl]pyrimidin-4-yl}phenyl)methanol trihydrochloride; and
- 15 3-{2-amino-6-[3-(methylamino)pyrrolidin-1-yl]pyrimidin-4-yl}benzonitrile trihydrochloride.
6. A 2-aminopyrimidine derivative of the formula (I-ii), its tautomeric or stereoisomeric form, or a salt,



wherein

- 20 R^{13} is C_{1-6} alkyl optionally substituted by halogen, cyano, hydroxy, carboxy, amino, C_{1-6} alkylamino, N,N-di(C_{1-6} alkyl)amino, C_{1-6} alkylthio, C_{1-6} alkoxy, or C_{3-8} cycloalkyl; and

5 R^2 is phenyl having one or more substituents selected from the group consisting of carboxy, cyano, hydroxy, phenyl, C_{1-6} alkanoyl, $N-(C_{1-6}alkyl)sulfonylamino$, $N-phenylsulfonylamino$, $C_{1-6}alkylamino$, $N,N-di(C_{1-6}alkyl)amino$, $N-(C_{1-6}alkanoyl)amino$, $C_{1-6}alkoxycarbonyl$, $C_{1-6}alkylthio$, $N-(C_{1-6}alkoxycabonyl)amino$, $N-arylamino$, $N-(aryl$
 10 $C_{1-6}alkyl)amino$, $aminocarbonyl$, $N-(C_{1-6}alkyl)aminocarbonyl$, $N,N-di(C_{1-6}alkyl)aminocarbonyl$, $C_{3-8}cycloalkyl$, $C_{1-6}alkylsulfonyl$, $aryl C_{1-6}alkoxycarbonyl$, $C_{1-6}alkyl$ substituted by cyano, hydroxy, carboxy, amino, $C_{1-6}alkylamino$, $N,N-di(C_{1-6}alkyl)amino$, $C_{1-6}alkylthio$, $C_{1-6}alkoxy$, or mono-, di-, or tri- halogen, $C_{1-6}alkoxy$ substituted by mono-, di-, or tri- halogen, $-N(R^{21})C(O)N(R^{22})(R^{23})$, and $N(R^{21})C(O)R^{24}$,
 15 or
 naphthyl optionally having one or more substituents selected from the group consisting of halogen, amino, carboxy, cyano, hydroxy, nitro, phenyl, $C_{1-6}alkanoyl$, $N-phenylsulfonylamino$, $C_{1-6}alkylamino$, $N,N-di(C_{1-6}alkyl)amino$, $N-(C_{1-6}alkanoyl)amino$, $C_{1-6}alkoxycarbonyl$, $C_{1-6}alkylthio$, $N-(C_{1-6}alkoxycabonyl)amino$, $N-arylamino$,
 20 $N-(aryl C_{1-6}alkyl)amino$, $aminocarbonyl$, $N-(C_{1-6}alkyl)aminocarbonyl$, $N,N-di(C_{1-6}alkyl)aminocarbonyl$, $C_{3-8}cycloalkyl$, $C_{1-6}alkylsulfonyl$, $sulfamoyl$, $aryl C_{1-6}alkoxycarbonyl$, $C_{1-6}alkyl$ optionally substituted by cyano, hydroxy, carboxy, amino, $C_{1-6}alkylamino$, $N,N-di(C_{1-6}alkyl)amino$, $C_{1-6}alkylthio$, $C_{1-6}alkoxy$, or mono-, di-, or tri- halogen, $C_{1-6}alkoxy$ optionally substituted by amono-, di-, or tri- halogen, $-N(R^{21})C(O)N(R^{22})(R^{23})$, and $N(R^{21})C(O)R^{24}$,

wherein

R^{21} is hydrogen or $C_{1-6}alkyl$;

 25 R^{22} is $C_{1-6}alkyl$, or phenyl optionally having one or more substituents selected from the group consisting of halogen, amino, carbamoyl, cyano, hydroxy, nitro, phenyl, $C_{1-6}alkanoyl$, $C_{1-6}alkyl$ optionally substituted by hydroxy or mono-, di-, or tri- halogen, and $C_{1-6}alkoxy$ optionally substituted by mono-, di-, or tri- halogen;

 R^{23} is hydrogen or $C_{1-6}alkyl$;

 30 R^{24} is phenyl optionally having one or more substituents selected from the group consisting of halogen, amino, carboxy, carbamoyl, cyano, hy-

droxy, nitro, phenyl, C₁₋₆alkanoyl, C₁₋₆alkyl optionally substituted by hydroxy or mono-, di-, or tri- halogen, and C₁₋₆alkoxy optionally substituted by a mono-, di-, or tri- halogen.

7. The 2-aminopyrimidine derivative of the formula (I-ii), its tautomeric or stereoisomeric form,
5 or a salt thereof as claimed in claim 6,

wherein

- R² is phenyl having one or more substituents selected from the group consisting of cyano, phenyl, C₁₋₆alkanoyl, N-(C₁₋₆alkanoyl)amino, C₁₋₆alkoxycarbonyl, C₁₋₆alkylsulfonyl, trifluoromethyl, and C₁₋₆alkyl substituted by cyano, hydroxy, amino, C₁₋₆alkylamino, N,N-di(C₁₋₆alkyl)amino, or C₁₋₆alkoxy,
10

or

- naphthyl optionally having one or more substituents selected from the group consisting of cyano, hydroxy, phenyl, C₁₋₆alkanoyl, C₁₋₆alkylamino, N,N-di(C₁₋₆alkyl)amino, N-(C₁₋₆alkanoyl)amino, C₁₋₆alkoxycarbonyl, C₁₋₆alkylthio, C₁₋₆alkylsulfonyl, C₁₋₆alkyl, trifluoromethyl, C₁₋₆alkyl substituted by cyano, hydroxy, amino, C₁₋₆alkylamino, N,N-di(C₁₋₆alkyl)amino, or C₁₋₆alkoxy, and C₁₋₆alkoxy.
15

8. The 2-aminopyrimidine derivative of the formula (I-ii), its tautomeric or stereoisomeric form, or a salt thereof as claimed in claim 6, wherein said derivative is selected from the group consisting of the following compounds:
20 3-[2-amino-6-(4-methylpiperazin-1-yl)pyrimidin-4-yl]phenol;
1-{3-[2-amino-6-(4-methylpiperazin-1-yl)pyrimidin-4-yl]phenyl}ethanone;
{3-[2-amino-6-(4-methylpiperazin-1-yl)pyrimidin-4-yl]phenyl}methanol;
4-(4-methylpiperazin-1-yl)-6-[3-(trifluoromethyl)phenyl]pyrimidin-2-amine;
4-biphenyl-3-yl-6-(4-methylpiperazin-1-yl)pyrimidin-2-amine trihydrochloride;
25 4-[3-(dimethylamino)phenyl]-6-(4-methylpiperazin-1-yl)pyrimidin-2-amine;
4-(4-methylpiperazin-1-yl)-6-(1-naphthyl)pyrimidin-2-amine; and
3-[2-amino-6-(4-methylpiperazin-1-yl)pyrimidin-4-yl]benzonitrile.

9. A medicament comprising the 2-aminopyrimidine derivative, its tautomeric or stereoisomeric form, or a physiologically acceptable salt thereof as claimed in any one of claim 1 to 8 as an active ingredient.
10. The medicament as claimed in claim 9, further comprising one or more pharmaceutically acceptable excipients.
11. The medicament as claimed in claim 9, wherein said 2-aminopyrimidine derivative, its tautomeric or stereoisomeric form, or a physiologically acceptable salt thereof is a histamine H₄ receptor antagonist.
12. The medicament as claimed in claim 9 for the treatment and/or prevention of an inflammatory disorder or disease.
13. The medicament as claimed in claim 12, wherein said inflammatory disorder or disease is asthma, rhinitis, allergic diseases or chronic obstructed pulmonary disease (CORD).
14. The medicament as claimed in claim 9 for the treatment and/or prevention of an immunological disorder or disease.
15. The medicament as claimed in claim 14, wherein said immunological disorder or disease is rheumatoid arthritis or atherosclerosis.
16. Use of a compound according to any one of claim 1 to 8 for manufacturing a medicament for the treatment and/or prevention of an inflammatory disorder or disease.
17. Use of a compound according to any one of claim 1 to 8 for manufacturing a medicament for the treatment and/or prevention of an immunological disorder or disease.
18. Process for controlling an inflammatory disorder or disease in humans and animals by administration of a histamine H₄ receptor antagonisticly effective amount of a compound according to any one of claim 1 to 8.
19. Process for controlling an immunological disorder or disease in humans and animals by administration of a histamine H₄ receptor antagonisticly effective amount of a compound according to any one of claim 1 to 8.